

**CLAIMS**

1. Data transmission system comprising at least a data transmission network based upon an IP protocol, at least a content server for providing data requested by a user  
5 connected to the network, a plurality of proxies having a cache function, each proxy capable of having stored the requested data and one of the proxies being a user proxy to which is addressed the request sent by the user, and a domain name server for converting a server name provided  
10 by the user to the user proxy into an IP address of the content server;

wherein the domain name server includes table means for providing an IP address of a proxy amongst the proxies capable of having stored the requested data, the table  
15 means providing the proxy IP address to the user proxy whereby the requested data can be provided to the user by the proxy storing the requested data without requesting the data from the content server.

2. Method for obtaining data in an optimized way in a data transmission system comprising at least a data transmission network based upon an IP protocol, at least a content server for providing data requested by a user  
20 connected to the network, a plurality of proxies having a cache function, each proxy capable of having stored the requested data and one of the proxies being a user proxy to which is addressed the request sent by the user, and a domain name server for converting a server name provided  
25 by the user to the user proxy into an IP address of the content server;

30 the method including the steps of:

a) looking for an entry of a table stored in the domain name server corresponding to the server name when the user proxy has not stored the data requested by the user, and

5           b) determining, when there is such an entry in the table, whether the entry includes an address of a proxy amongst the plurality of proxies.

3. Method according to claim 2, further comprising the steps of:

10           c) returning the proxy IP address to the user proxy if such a proxy IP address is included in the entry corresponding to the server name, and

          d) sending the user request from the user proxy to the proxy IP address included in the entry.

15   4. Method according to claim 2, further comprising a step of determining whether the user proxy is a known proxy when the entry in the table does not include the address of a proxy, the user proxy being a known proxy when it is contained in a list of proxies provided to the domain name  
20   server at an initialization of the system.